

(19) 世界知的所有権機関
国際事務局



(43) 国際公開日
2002 年 7 月 18 日 (18.07.2002)

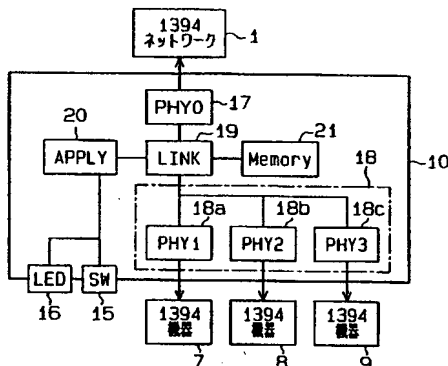
PCT

(10) 国際公開番号
WO 02/056547 A1

- (51) 国際特許分類: H04L 12/46, 12/44 (72) 発明者; および
(21) 国際出願番号: PCT/JP00/09289 (75) 発明者/出願人 (米国についてのみ): 吉田 雄二 (YOSHIDA, Yuji) [JP/JP]; 〒487-0013 愛知県春日井市高蔵寺町二丁目1844番2 富士通ヴィエルエスアイ株式会社内 Aichi (JP).
(22) 国際出願日: 2000 年 12 月 27 日 (27.12.2000) (74) 代理人: 恩田博宣(ONDA, Hironori); 〒500-8731 岐阜県岐阜市大宮町2丁目12番地の1 Gifu (JP).
(25) 国際出願の言語: 日本語 (81) 指定国 (国内): JP, US.
(26) 国際公開の言語: 日本語
(71) 出願人 (米国を除く全ての指定国について): 富士通株式会社 (FUJITSU LIMITED) [JP/JP]; 〒211-8588 神奈川県川崎市中原区上小田中4丁目1番1号 Kanagawa (JP). 富士通ヴィエルエスアイ株式会社 (FUJITSU VLSI LIMITED) [JP/JP]; 〒487-0013 愛知県春日井市高蔵寺町二丁目1844番2 Aichi (JP).
添付公開書類:
— 国際調査報告書
2 文字コード及び他の略語については、定期発行される各 PCT ガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

(54) Title: SWITCHED ROUTING DEVICE AND SWITCHED ROUTING SYSTEM

(54) 発明の名称: 切替え中継装置、及び切替え中継システム



(57) Abstract: A switched routing system recognizes a device, without reconfiguring a network used for connection, while realizing hot plugging. A first network (1) including a host personal computer is connected to a physical layer circuit (17). 1394 type devices (7-9) are connected to physical layer circuits (18a-18c). The physical layer circuit (17) is connectable through a link layer circuit (19) to the physical layer circuits (18a-18c), while the physical layer circuit (17) is separated from the physical layer circuits (18a-18c). As a result, the reconfiguration of the first network (1) is avoided in case a bus reset occurs on any of the 1394 type devices (7-9) when it is installed or removed.

1...1394 TYPE NETWORK
7...1394 TYPE DEVICE
8...1394 TYPE DEVICE
9...1394 TYPE DEVICE

WO 02/056547 A1

[続葉有]



(57) 要約:

ホット・プラグ機能を実現しながら接続対象となるネットワークの再構築を行うことなく装置認識を可能とする切替え中継装置、及び切替え中継システム。ホストパソコンの存在する第1のネットワーク(1)は、物理層回路(17)に接続される。1394機器(7～9)は、物理層回路(18a～18c)に接続される。物理層回路(17)と物理層回路(18a～18c)はリンク層回路(19)を介して接続され、物理層回路(17)と物理層回路(18a～18c)とは互いに分離される。そのため、1394機器(7～9)の挿抜により当該1394機器(7～9)にバスリセットが発生しても、第1のネットワーク(1)の再構築の発生は抑止される。

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP00/09289

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ H04L12/46, H04L12/44

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ H04L12/46, H04L12/44

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2001
Kokai Jitsuyo Shinan Koho 1971-2001 Jitsuyo Shinan Toroku Koho 1996-2001

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
JICST FILE (JOIS)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP, 9-212163, A (Yamaha Corporation), 15 August, 1997 (15.08.97), Figs. 1, 3 (Family: none)	1-11
A	JP, 11-341021, A (Canon Inc.), 10 December, 1999 (10.12.99), Figs. 1, 2 (Family: none)	1-11
A	JP, 2000-151681, A (Samsung Electron Co., Ltd.), 30 May, 2000 (30.05.00), Figs. 1, 3 (Family: none)	1-11
A	EP, 899655, A1 (Canon Inc.), 03 March, 1999 (03.03.99), Fig. 6 & JP, 11-163895, A & KR, 99023846, A & CN, 1211763, A	1-11

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not
considered to be of particular relevance
"E" earlier document but published on or after the international filing
date
"L" document which may throw doubts on priority claim(s) or which is
cited to establish the publication date of another citation or other
special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other
means
"P" document published prior to the international filing date but later
than the priority date claimed

"T" later document published after the international filing date or
priority date and not in conflict with the application but cited to
understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be
considered novel or cannot be considered to involve an inventive
step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be
considered to involve an inventive step when the document is
combined with one or more other such documents, such
combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search
28 March, 2001 (28.03.01)

Date of mailing of the international search report
10 April, 2001 (10.04.01)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.